



**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION**
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera/

Efco Corporation

**1000 County Road, P.O. Box 609
Monett, MO 65708-0609**

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "5600 - 8" Deep Frame" Aluminum Curtain Wall System- S.M.I.

APPROVAL DOCUMENT: Drawing No. 1091, titled "8" Deep Series 5600 Small Missile Impact Curtain Wall System", sheets 1 through 9 of 9, dated 01/15/02, revision C1 dated 09/30/11, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises and renews** NOA # 07-0305.02 and consists of this page 1 and evidence pages E-1, E-2, E-3, E-4, E-5 and E-6, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**

**MIAMI-DADE COUNTY
APPROVED**

**NOA No. 11-1027.16
Expiration Date: June 27, 2017
Approval Date: February 16, 2012
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1091**, titled "8" Deep Series 5600 Small Missile Impact Curtain Wall System", sheets 1 through 9 of 9, dated 01/15/02, with revision C1 dated 09/30/11, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a multiple span EFCO S5600 - **8" deep** outsize glazed aluminum curtain wall system 202" wide x 341" high x 64" return, specimen # **1 (A-A1)**, Glass types: **1, 2, 4, 5, 6A & 8**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0413-01**, dated 2/16-19/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 - **8" deep** outsize glazed aluminum curtain wall system 181-1/2" wide x 150" high, specimen # **9 (B1)**, Glass types: **3 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/24-27/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 - **8" deep** outsize glazed aluminum curtain wall system 181-1/2" wide x 121-3/4" high, specimen # **3 (B3)**, Glass types: **6 & 7**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/14-15/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)


Manuel Perez, P.E.
Product Control Examiner
NOA No: 11-1027.16

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B. TESTS (CONTINUED)

4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 7” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **6 (C)**, Glass types: 1, 3A & 4, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0413-01**, dated 4/26-27/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 6” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 169-1/4” high, specimen # **2 (D)**, Glass types: 1, 4 & 5, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/13-16/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **4 (E)**, Glass type: 5, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/16-17/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
7. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” **deep** outsize glazed aluminum curtain wall system 181-1/2” wide x 121-3/4” high, specimen # **1 (F)**, Glass type: 2, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0517-01**, dated 5/11-17/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)



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B. TESTS (CONTINUED)

8. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outsize glazed aluminum curtain wall system 181-1/2” wide x 116” high, specimen # **5 (G)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/20/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
9. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outsize glazed aluminum curtain wall system 181-1/2” wide x 150” high, specimen # **6b (H)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-23/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
10. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 6” deep outsize glazed aluminum curtain wall system 181-1/2” wide x 98” high, specimen # **8 (J)**, Glass types: **1, 2 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/23-24/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
11. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Small Missile Impact Test per FBC, TAS 201-94
4) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – 8” deep outsize glazed aluminum curtain wall system 181-1/2” wide x 150” high, specimen # **6a (K)**, Glass types: **2, 4 & 5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-23/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)



Manuel Perez, P.E.
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B. TESTS (CONTINUED)

12. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – **6" deep** outsize glazed aluminum curtain wall system 181-1/2" wide x 112" high, specimen # **7 (L)**, Glass type: **5**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-0816-01**, dated 8/21-22/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
13. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a single span EFCO S5600 – **8" deep** outsize glazed aluminum curtain wall system 181-1/2" wide x 121-3/4" high, specimen # **1 (M)**, Glass type: **6a**, marked-up by Hurricane Test Laboratory, Inc. Test Report No. **HTL-0046-1004-01**, dated 10/17/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
14. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a series 300 medium stile pair of doors in an 8" deep aluminum curtain wall system frame; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-1217-01, Elevation F**, dated 12/12-13/01, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
15. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a series 300 medium stile pair of doors in an 8" deep aluminum curtain wall system frame; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0315-02, Elevation H**, dated 3/19-25/03, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)


Manuel Perez, P.E.

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B. TESTS (CONTINUED)

16. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a three-bay specimen of a series S5600 8" deep outside glazed curtain wall system, 176" wide x 128-1/2" high, specimen #1; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-1019-03, Elevation A**, dated 10/20/03, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)
17. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of a three-bay specimen of a series S5600 6" deep outside glazed curtain wall system, 182-1/2" wide x 98" high, specimen #2; prepared by Hurricane Test Laboratory, Test Report No. **HTL-0046-0113-04, Elevation C**, dated 01/09-12/04, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 05-1212.07)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and 2010, dated 09/04/06, and revised and updated on 09/29/11, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.
2. Notice of Acceptance No. **11-0325.05** issued to Solutia, Inc. for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16.
3. Notice of Acceptance No. **08-1118.07** issued to **Oldcastle Glass Inc.** for their "**StormGlass Glass Interlayer**", dated 03/05/09, expiring on 12/11/13.


Manuel Perez, P.E.

Product Control Examiner
NOA No. 11-1027.16

Expiration Date: June 27, 2017

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F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, dated 09/28/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated 09/28/11, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Reports No. **HTL-0046-0413-01, HTL-0046-0517-01 & HTL-0046-0816-01** issued by Hurricane Test Laboratory, Inc., dated October 23, 2001, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA # 05-1212.07)
4. Laboratory compliance letter for Test Reports No. **HTL-0046-1019-03** issued by Hurricane Test Laboratory, Inc., dated October 30, 2003, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA # 05-1212.07)
5. Laboratory compliance letter for Test Reports No. **HTL-0046-0113-04** issued by Hurricane Test Laboratory, Inc., dated January 15, 2004, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA # 05-1212.07)
6. Proposal No. **01-0092**, acceptance letter dated July 30, 2001, issued by this Office and signed by Jaime D. Gascon.
(Submitted under NOA# 05-1212.07)

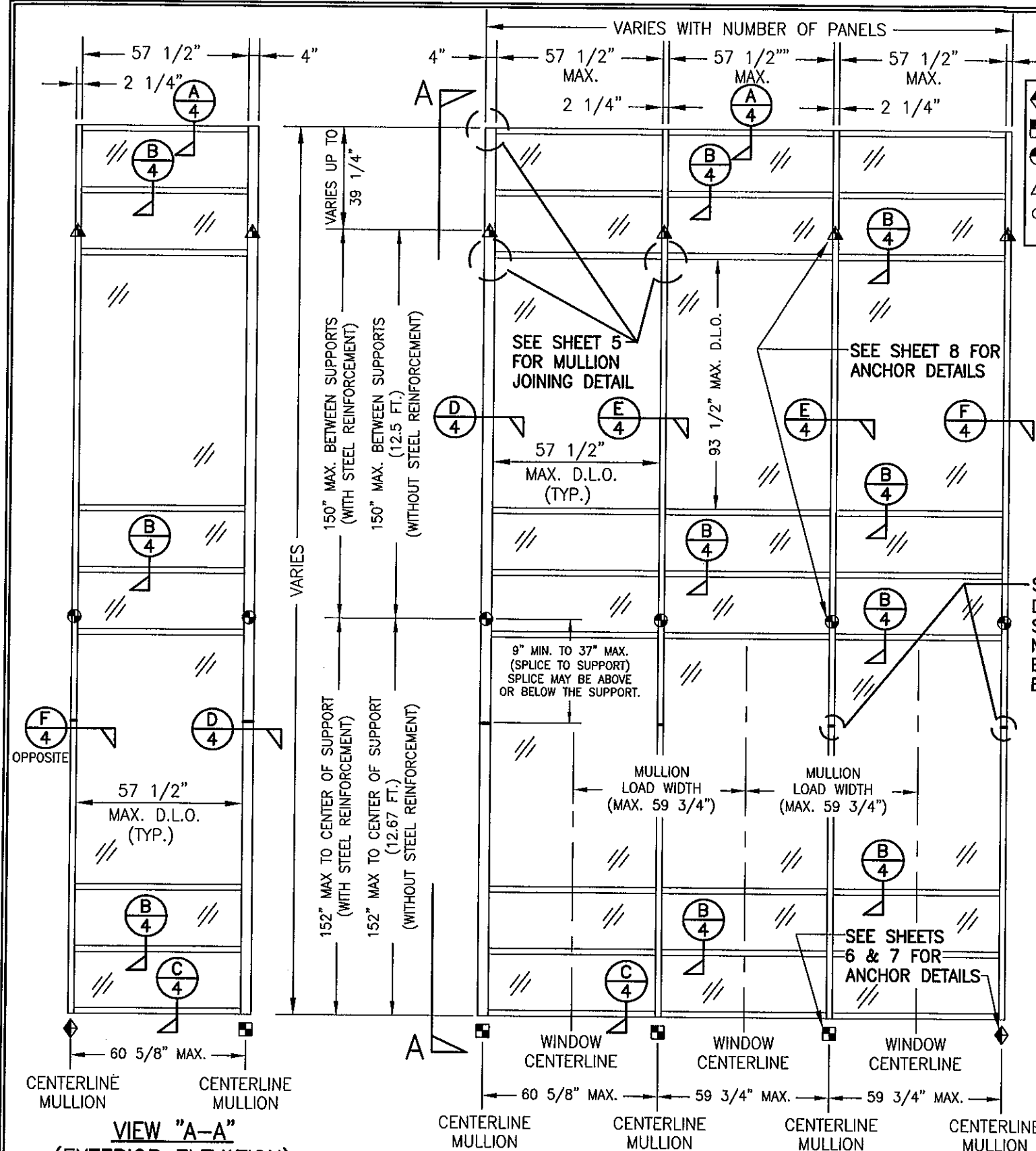
G. OTHERS

1. Notice of Acceptance No. **07-0305.02**, issued to EFCO Corporation for their Series 5600 – 8” Deep Frame - Aluminum Curtain Wall System – S.M.I., approved on 05/17/07 and expiring on 06/27/12.


Manuel Perez, P.E.

Product Control Examiner
NOA No. 11-1027.16

Expiration Date: June 27, 2017
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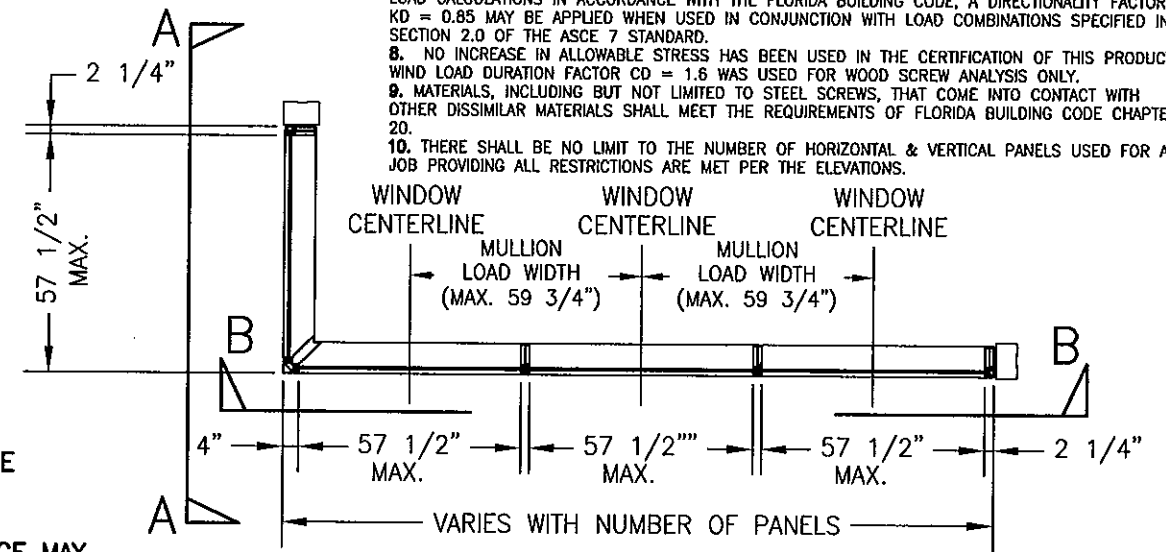
VIEW "A-A"
(EXTERIOR ELEVATION)
ONLY ONE ROW SHOWN; MORE THAN ONE ROW MAY BE INSTALLED

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER LISTED ON THESE DRAWINGS.

EXTERIOR ELEVATION: VIEW "B-B"
CURTAIN WALL WITH MULTIPLE VERTICAL SPANS
SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A MULTI-STORY APPLICATION. THE NUMBER OF FLOORS WITH WHICH THIS SYSTEM MAY BE USED RANGE FROM TWO(2) TO UNLIMITED WITH THE ONLY RESTRICTIONS BEING AS SHOWN ON THE SPAN BETWEEN FLOORS/SUPPORTS AND THE D.L.O. SIZE

- ◆ = F OR TF-ANCHOR
- = M OR TM-ANCHOR
- = DEAD LOAD ANCHOR
- ▲ = WIND LOAD ANCHOR
- ⬢ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR



PLAN VIEW
CURTAIN WALL WITH MULTIPLE VERTICAL SPANS
SCALE: 1/4"=1'-0"

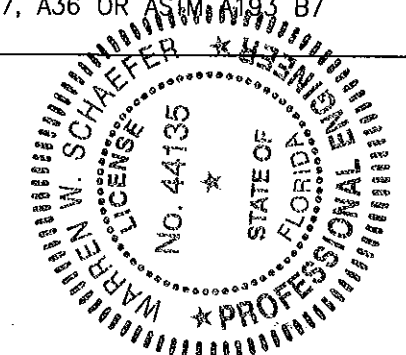
"F", "TF", "M", "TM" & SHEAR BLOCK ANCHOR FASTENER REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	ANCHOR TO OPENING FASTENER TYPE	NO. FASTENERS PER ANCHOR INTO SUBSTRATE		MINIMUM EMBED	EDGE DIST.
		SHEAR BLOCK ANCHORS	F, TF, M & TM ANCHORS		
MIN. 16 GA. 33 KSI METAL STUD	(1) NO. 14 SELF TAP/DRILLING SCREW	5	6	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(1) NO. 14 SELF TAP/DRILLING SCREW	5	6	FULL	1/2"
MIN. 3000 PSI CONCRETE	(2) 3/8" ADHESIVE ANCHORS	N/A	4	3 1/2"	3"
MIN. 3000 PSI CONCRETE	(2) 1/2" ADHESIVE ANCHORS	2	N/A	4 1/4"	3 1/2"

- (1) SELF DRILLING/TAPPING SCREWS SHALL BE MIN. GR. 5 STEEL & BE COATED TO RESIST CORROSION & REACTIONS WITH DISSIMILAR MATERIALS.
- (2) ADHESIVE ANCHORS SHALL BE HILTI HVA ADHESIVE ANCHOR (A307, A36 OR ASTM A193 B7 STEEL OR 304/316 STAINLESS STEEL)

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-1027.16
Expiration Date June 27, 2017
By *Mamuel Perez*
Miami Dade Product Control

ALLOWABLE DESIGN LOADS
SEE LOAD TABLES ON SHEET 3



- GENERAL NOTES:**
1. THESE CURTAIN WALL SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
 2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
 4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR SMALL MISSILE IMPACT CURTAIN WALL SYSTEMS.
 5. THESE CURTAIN WALL SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
 6. WHEN GLAZED FOR SMALL MISSILE IMPACT, THIS CURTAIN WALL SYSTEM MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
 7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF KD = 0.85 MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
 8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR CD = 1.6 WAS USED FOR WOOD SCREW ANALYSIS ONLY.
 9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
 10. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 01/15/02	
NO.	REVISION DESCRIPTION	DATE	BY
A1	ADDED DOOR OPENING CONDITION & EDITED LOAD TABLES TO INCORPORATE DOOR CONDITION	07/29/03	K.P.S.
B1	UPDATE TO 2004 CODE	07/27/05	K.P.S.
C1	UPDATE TO CURRENT STANDARDS	09/30/11	W.R.M.

DRAWING TITLE
8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM

MANUFACTURER
EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

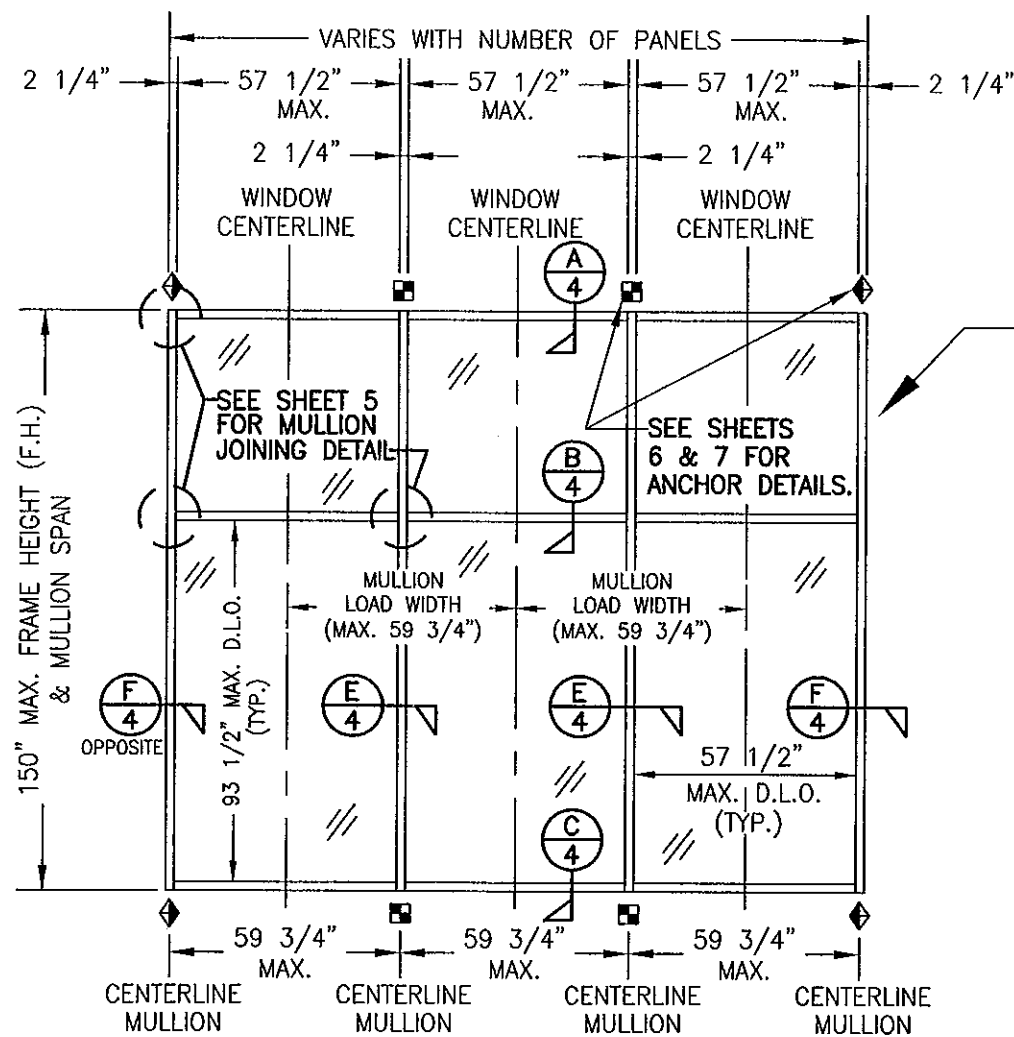
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
SEP 30 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1091

REV.
C

SHEET NO.
1 OF 9

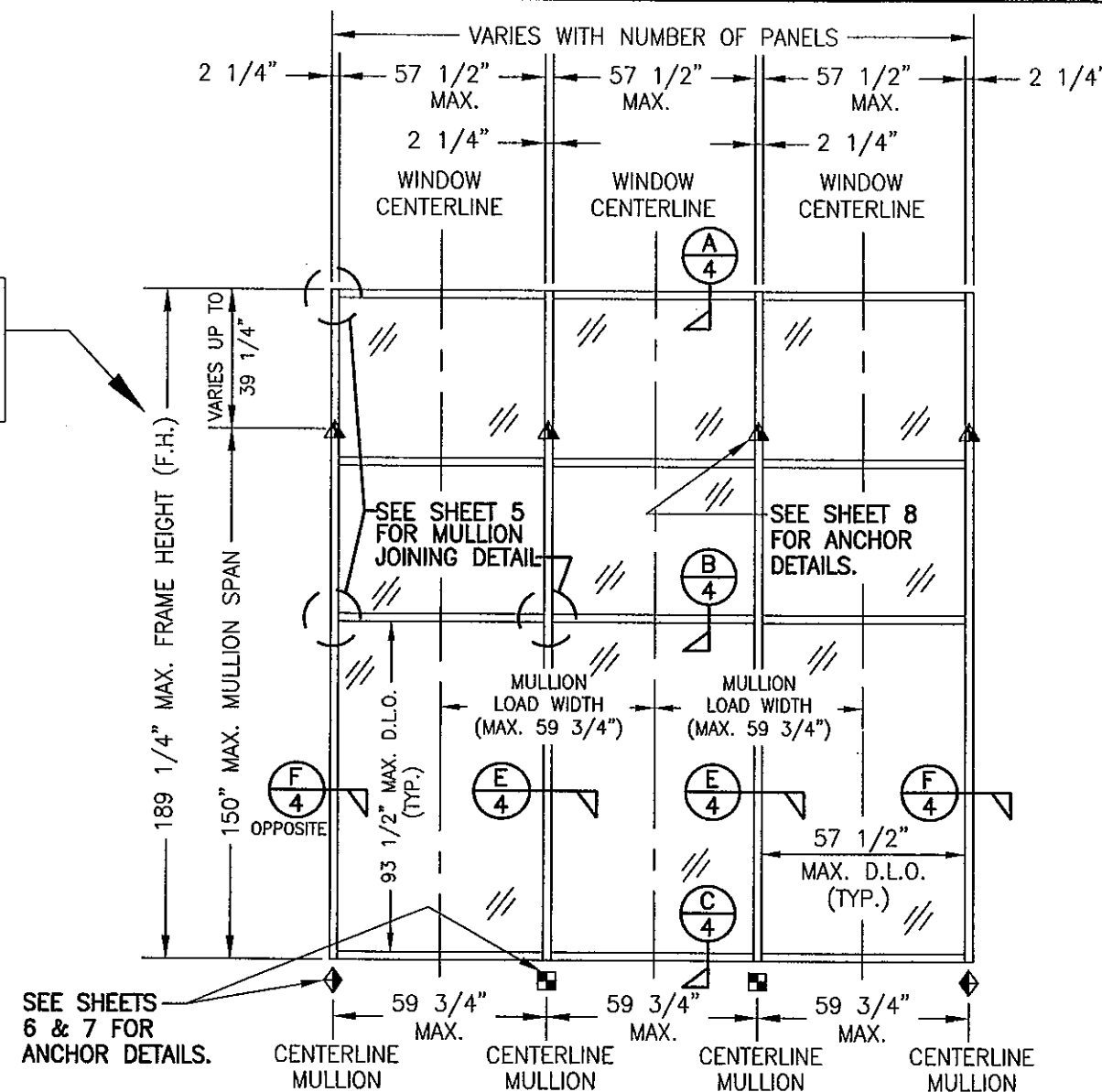


EXTERIOR ELEVATION
CURTAIN WALL WITH SINGLE VERTICAL SPAN
 SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A SINGLE SPAN APPLICATION. ALL SINGLE SPAN APPLICATIONS ARE LIMITED BY EACH THE D.L.O. SIZES OF THE LIGHTS & THE HEIGHT/SPAN SHOWN. IF REQUIRED HEIGHT EXCEEDS THAT SHOWN IN THIS ELEVATION, THE SYSTEM MUST BE SUPPORTED AS TWO OR MORE SPANS PER THE MULTIPLE SPAN ELEVATION.

NOTE: THE ELEVATIONS ON THIS SHEET MAY HAVE A 90 DEGREE TURN AS SHOWN ON SHEET 1 ELEVATION OF THE MULTI-SPAN SYSTEM. REF. VIEW "A-A" ON SHEET 1 FOR DETAIL.

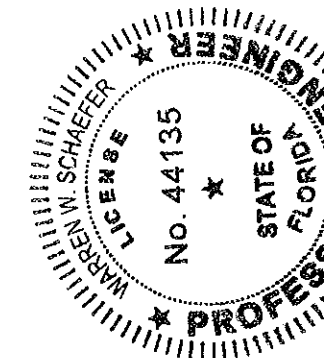
- ◆ = F OR TF-ANCHOR
- = M OR TM-ANCHOR
- ⊙ = DEAD LOAD ANCHOR
- ▲ = WIND LOAD ANCHOR
- ⊗ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR



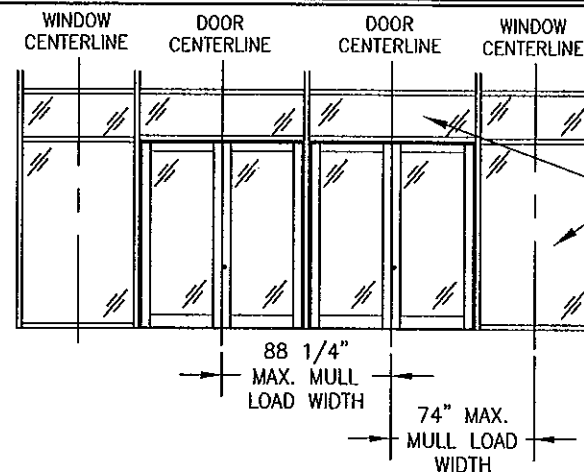
EXTERIOR ELEVATION: CURTAIN WALL
WITH SINGLE VERTICAL SPAN AND CANTELEVER
 SCALE: 1/4"=1'-0"

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A SINGLE SPAN APPLICATION. ALL SINGLE SPAN APPLICATIONS ARE LIMITED BY EACH THE D.L.O. SIZES OF THE LIGHTS & THE HEIGHT/SPAN SHOWN. IF REQUIRED HEIGHT EXCEEDS THAT SHOWN IN THIS ELEVATION, THE SYSTEM MUST BE SUPPORTED AS TWO OR MORE SPANS PER THE MULTIPLE SPAN ELEVATION.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 11-1022-16
 Expiration Date June 21, 2017
 By *Warren W. Schaefer*
 Miami Dade Product Control



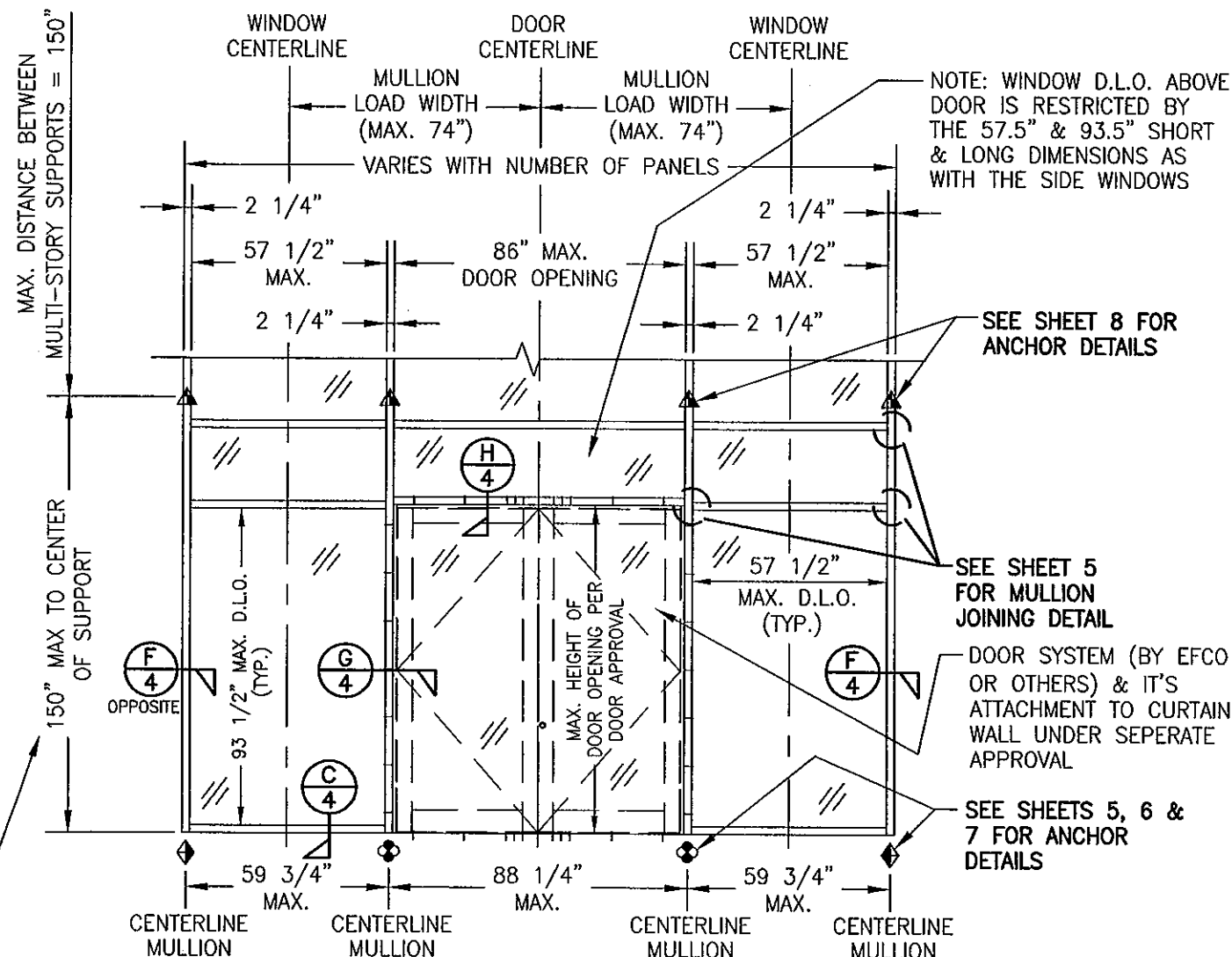
DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=48		DATE: 01/15/02	
NO.	REVISION	DESCRIPTION	DATE
DRAWING TITLE: 8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER: EFCO CORPORATION	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		1000 COUNTY ROAD: P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
DRAWING NO. 1091		REV. C	
SHEET NO. 2		OF 9	



NOTE: ALL WINDOW D.L.O.'S ARE RESTRICTED BY THE 57.5" & 93.5" SHORT & LONG DIMENSIONS AS WITH THE OTHER ELEVATIONS

NOTE: CONDITIONS SHOWN ALSO APPLY TO SINGLE PANEL DOOR CONDITIONS.

ELEVATION
NOT TO SCALE
(2 SIDE BY SIDE DOUBLE DOORS IN CURTAIN WALL)



THIS DIMENSION ALSO APPLIES TO SINGLE VERTICAL SPAN CONDITION AS THE MAX. HEIGHT.

NOTE: THIS ELEVATION SHOWS THE 5600 CURTAIN WALL SYSTEM IN A MULTI-STORY APPLICATION WITH A DOOR OPENING. DIMENSIONAL RESTRICTIONS ARE AS SHOWN IN THE ELEVATION. FOR AREA ABOVE DOOR AND FOR SINGLE SPAN MULLION CONDITION, REFERENCE OTHER SECTIONS.

EXTERIOR ELEVATION
CURTAIN WALL WITH DOOR

SCALE: 1/4"=1'-0"

NOTE: THE ELEVATION ON THIS SHEET MAY HAVE A 90 DEGREE TURN AS SHOWN ON SHEET 1 ELEVATION OF THE MULTI-SPAN SYSTEM. REF. VIEW "A-A" ON SHEET 1 FOR DETAIL.

ALLOWABLE FRAMING DESIGN PRESSURES

WITHOUT REINFORCEMENT IN MULLIONS

VERTICAL DISTANCE BETWEEN SUPPORTS	(2) MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD POSITIVE & NEGATIVE (PSF)
96" & LESS	80"	90.0
	88"	89.2
102"	74"	90.0
	80"	86.9
108"	88"	79.0
	66"	90.0
	74"	83.8
	80"	77.5
116"	88"	70.5
	59 3/4"	90.0
	66"	81.5
	74"	72.7
120"	80"	67.2
	88"	61.1
	54"	90.0
	59 3/4"	81.3
	66"	73.6
132"	74"	65.6
	80"	60.7
	88"	55.2
	36"	90.0
	42"	86.9
144"	48"	76.0
	54"	67.6
	59 3/4"	61.1
	66"	55.3
	74"	49.3
	80"	45.6
	88"	41.5
144"	24"	90.0
	30"	86.4
	36"	72.0
	42"	61.7
	48"	54.0
	54"	48.0
	59 3/4"	43.4
	66"	39.3
144"	74"	35.0
	80"	32.4
	88"	29.5

WITHOUT REINFORCEMENT IN MULLIONS

VERTICAL DISTANCE BETWEEN SUPPORTS	MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD POSITIVE & NEGATIVE (PSF)
150"	24"	90.0
	30"	79.7
	36"	66.4
	42"	56.9
	48"	49.8
	54"	44.3
	59 3/4"	40.0
	66"	36.2
150"	74"	32.3
	80"	29.9
	88"	27.2

WITH REINFORCED VERTICAL MULLIONS

VERTICAL DISTANCE BETWEEN SUPPORTS	MAXIMUM MULLION LOAD WIDTH	ALLOWABLE DESIGN LOAD POSITIVE & NEGATIVE (PSF)
120" & LESS	88"	90.0
	80"	90.0
	88"	85.8
128"	74"	90.0
	80"	83.6
136"	66"	90.0
	74"	80.6
	80"	74.6
144"	88"	67.8
	59 3/4"	90.0
	66"	82.4
	74"	73.5
	80"	68.0
150"	88"	61.8

1. THE LOADS IN THIS TABLE ARE APPLICABLE FOR SINGLE & MULTI SPAN SYSTEMS.
2. REGARDLESS OF LOAD WIDTHS SPECIFIED IN THIS TABLE, THE D.L.O. OF FIXED GLASS PANELS MAY NOT EXCEED 57 1/2" IN THEIR SHORT SIDE DIMENSION NOR 93 1/2" IN THEIR LONG SIDE DIMENSION.

PRODUCED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE

Building Code
Acceptance No. 11-1027-16
Expiration Date June 27, 2017

By *Manuel Perez*
Miami Dade Product Control

◆ = F OR TF-ANCHOR
■ = M OR TM-ANCHOR
● = DEAD LOAD ANCHOR

▲ = WIND LOAD ANCHOR
⊙ = DOOR JAMB MULLION SHEAR BLOCK ANCHOR

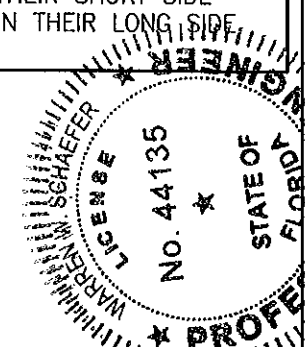
DRAWN BY: W.W.S.
CHECKED BY: W.W.S.
PLOT: 1=48
DATE: 01/15/02

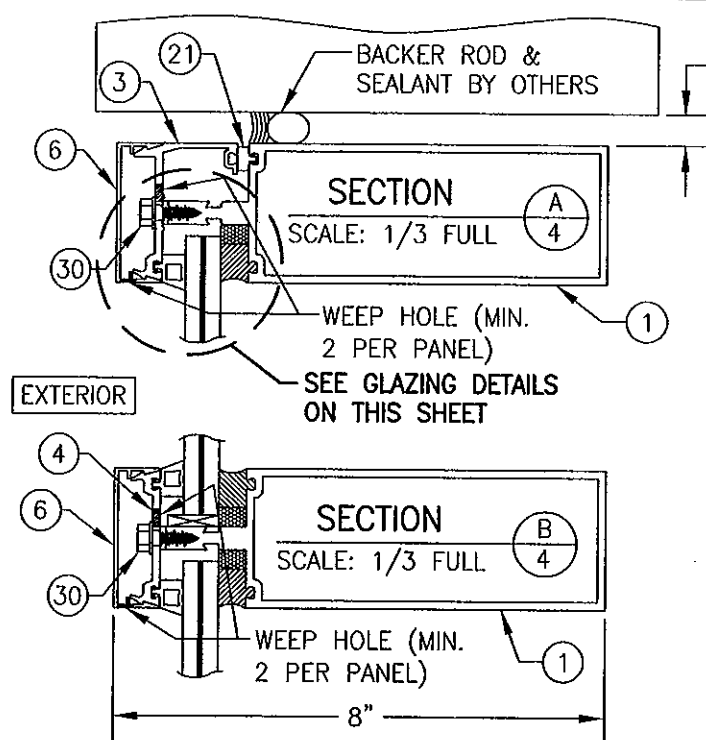
NO.	REVISION DESCRIPTION	DATE

8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM
EFCO CORPORATION
1000 COUNTY ROAD, P.O. BOX 609
MONETT, MO 65708-0609
800-221-4169

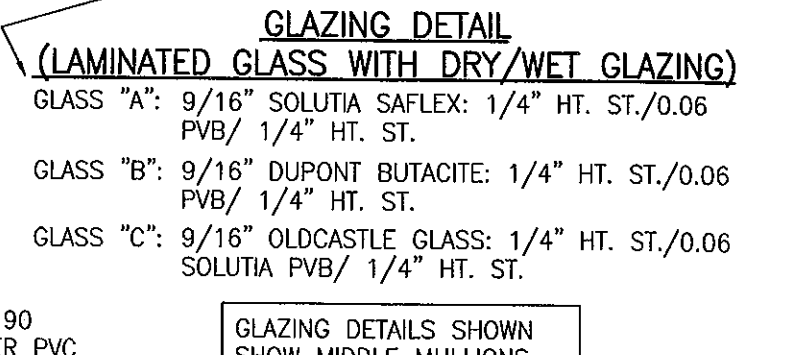
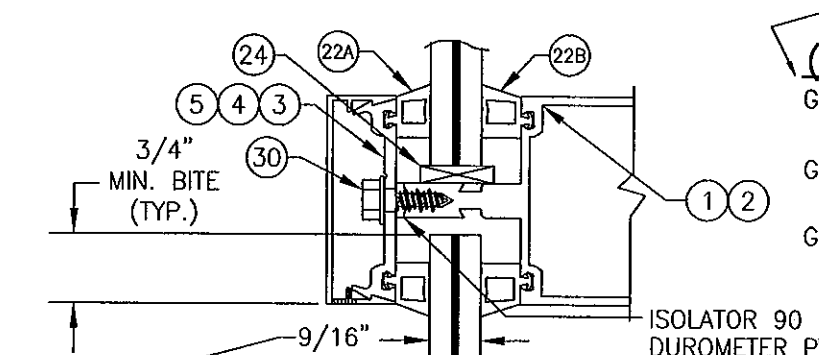
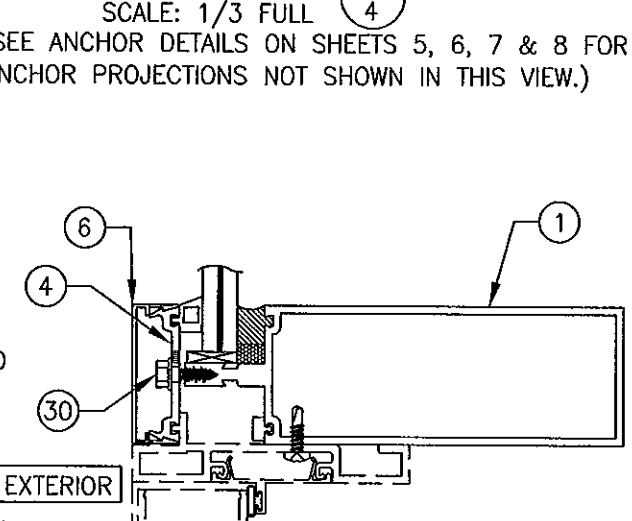
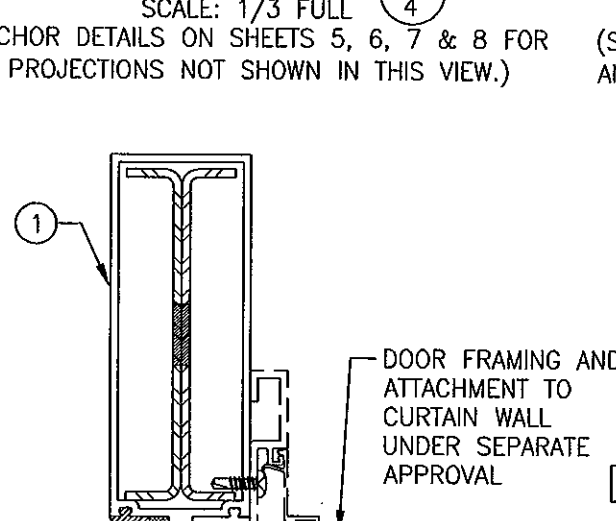
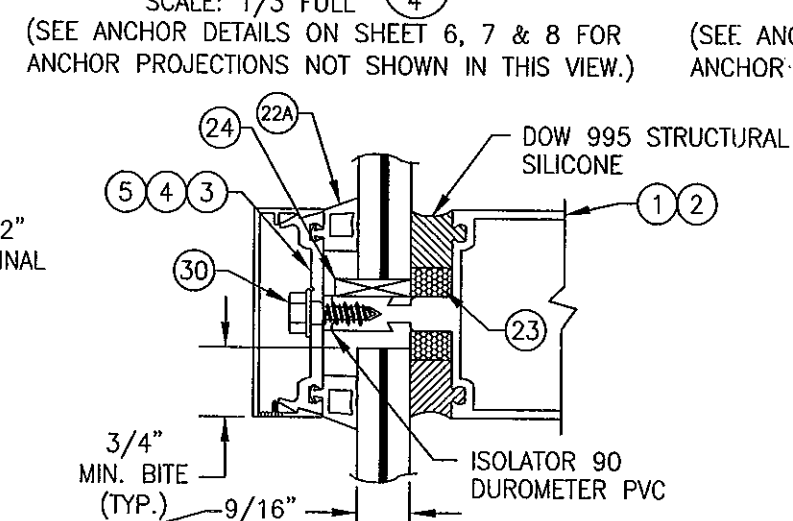
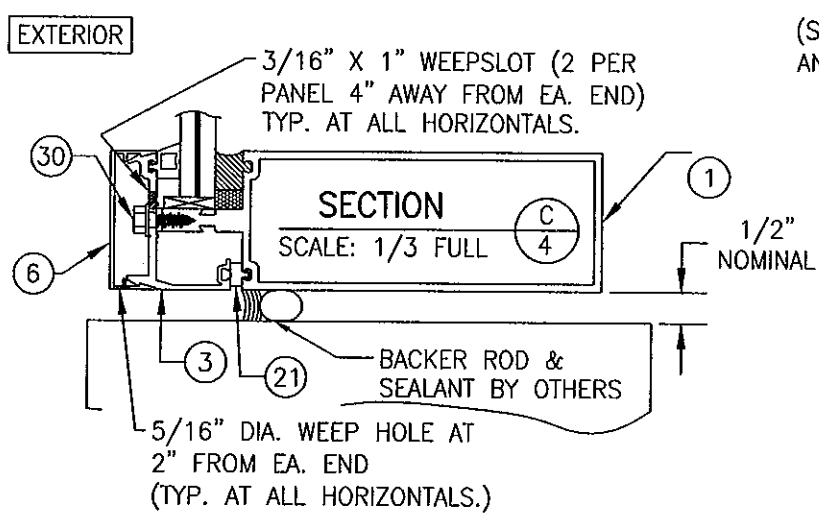
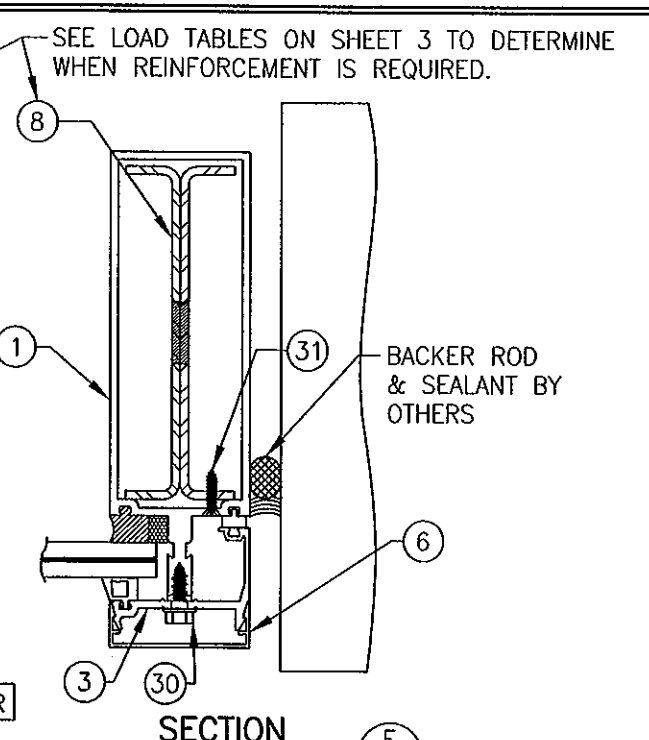
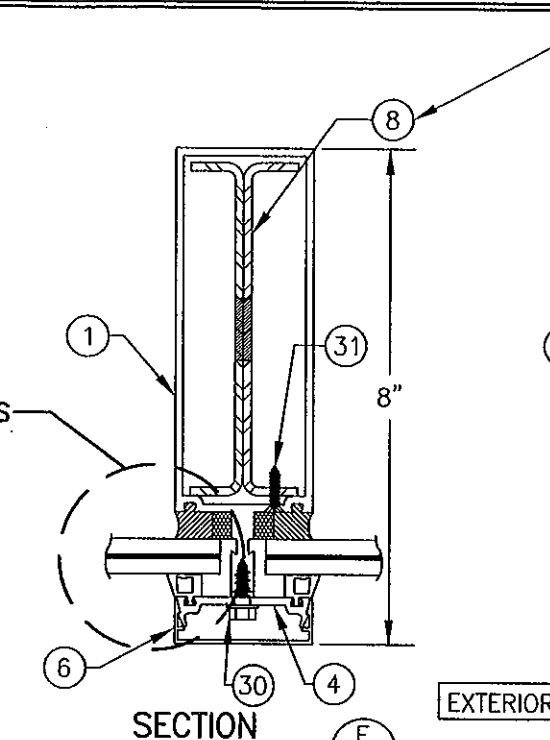
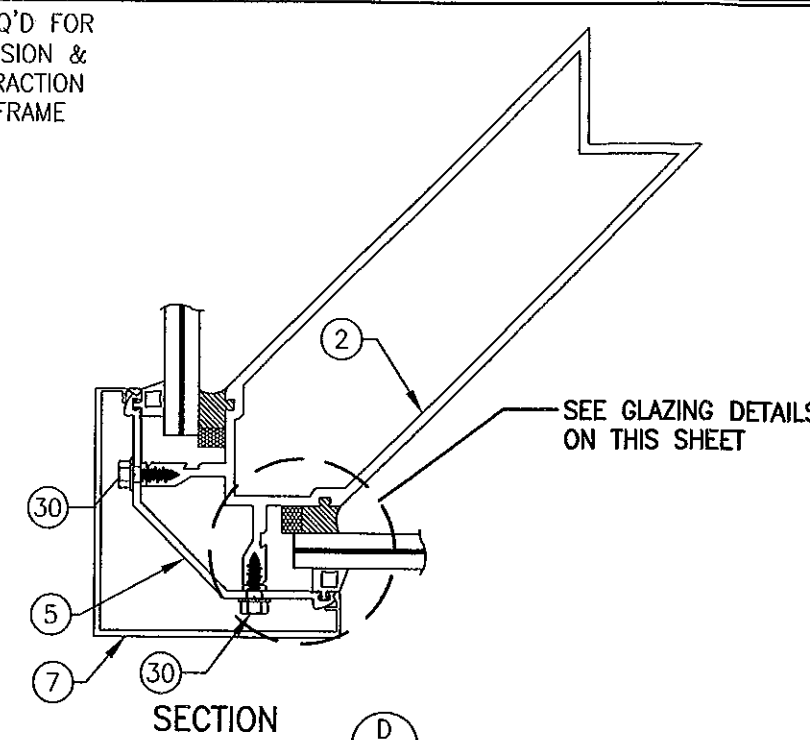
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING NO. 1091
SHEET NO. 3 OF 9
REV. C
SEP 30 2011
WAPREN W. SCHAEFER, P.E.
P.E. NO. 44135





AS REQ'D FOR
EXPANSION &
CONTRACTION
OF FRAME



GLASS "A": 9/16" SOLUTIA SAFLEX: 1/4" HT. ST./0.06 PVB/ 1/4" HT. ST.

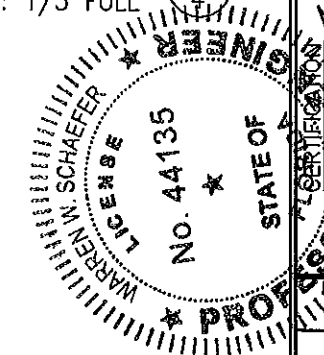
GLASS "B": 9/16" DUPONT BUTACITE: 1/4" HT. ST./0.06 PVB/ 1/4" HT. ST.

GLASS "C": 9/16" OLDCASTLE GLASS: 1/4" HT. ST./0.06 SOLUTIA PVB/ 1/4" HT. ST.

GLAZING DETAILS SHOWN SHOW MIDDLE MULLIONS. GLAZING AT EDGE MULLIONS & CORNER MULLIONS IS THE SAME.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027-16
Expiration Date June 27, 2017

By *Manuel Lopez*
Miami Trade Product Control

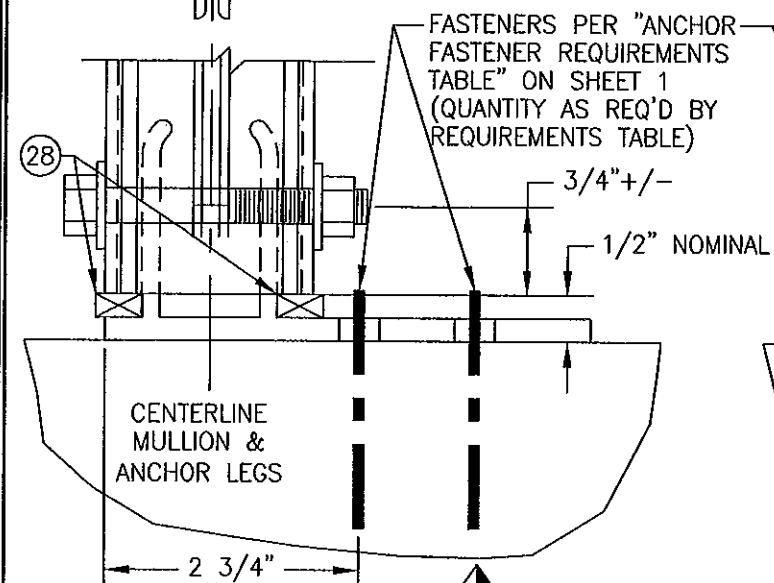
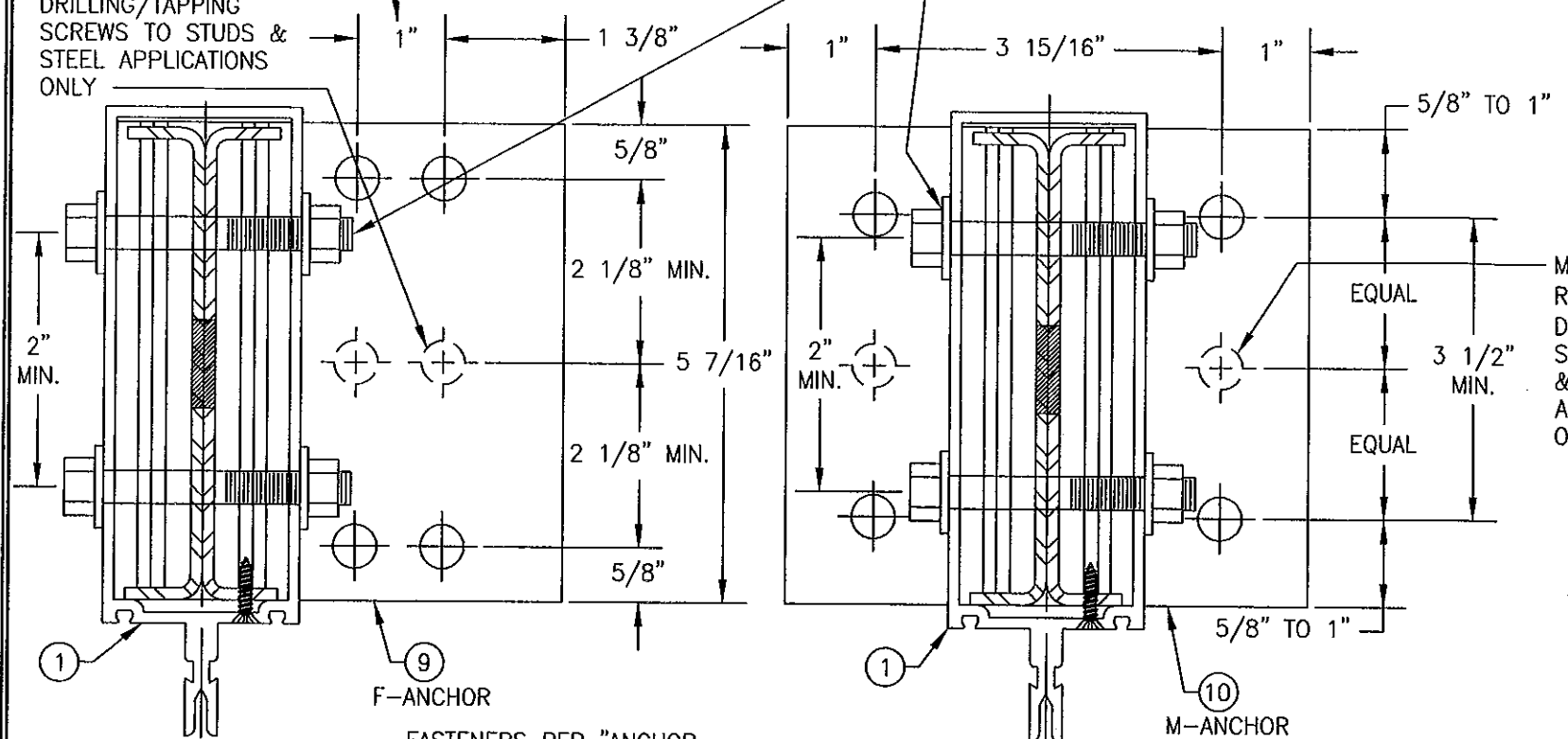


DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=3	DATE: 01/15/02
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER EFCO CORPORATION
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169
DRAWING NO. 1091	REV. C
SHEET NO. 4	OF 9

MIDDLE FASTENERS REQ'D WITH SELF DRILLING/TAPPING SCREWS TO STUDS & STEEL APPLICATIONS ONLY

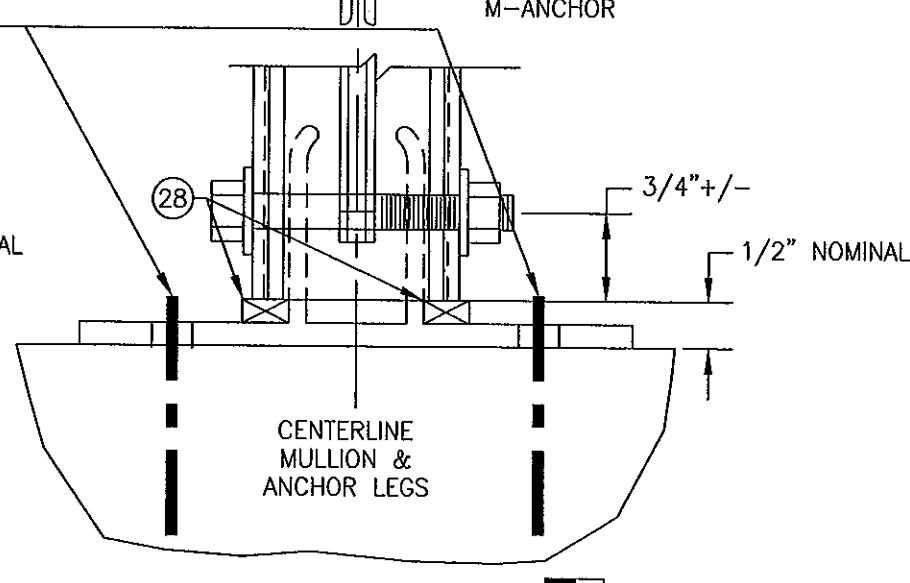
USE 1 5/8" SPACING WITH ADHESIVE ANCHOR APPLICATIONS TO PROTECT AGAINST CONCRETE CRACKING.

TWO(2) 3/8" STL. THROUGH BOLTS THROUGH INTERSECTING MEMBER SHEAR BLOCKS, MULLION & M ANCHOR (REQUIRED ONLY WHEN MULLION SUPPORTS A DOOR ON EITHER SIDE)



"F-ANCHOR" DETAIL

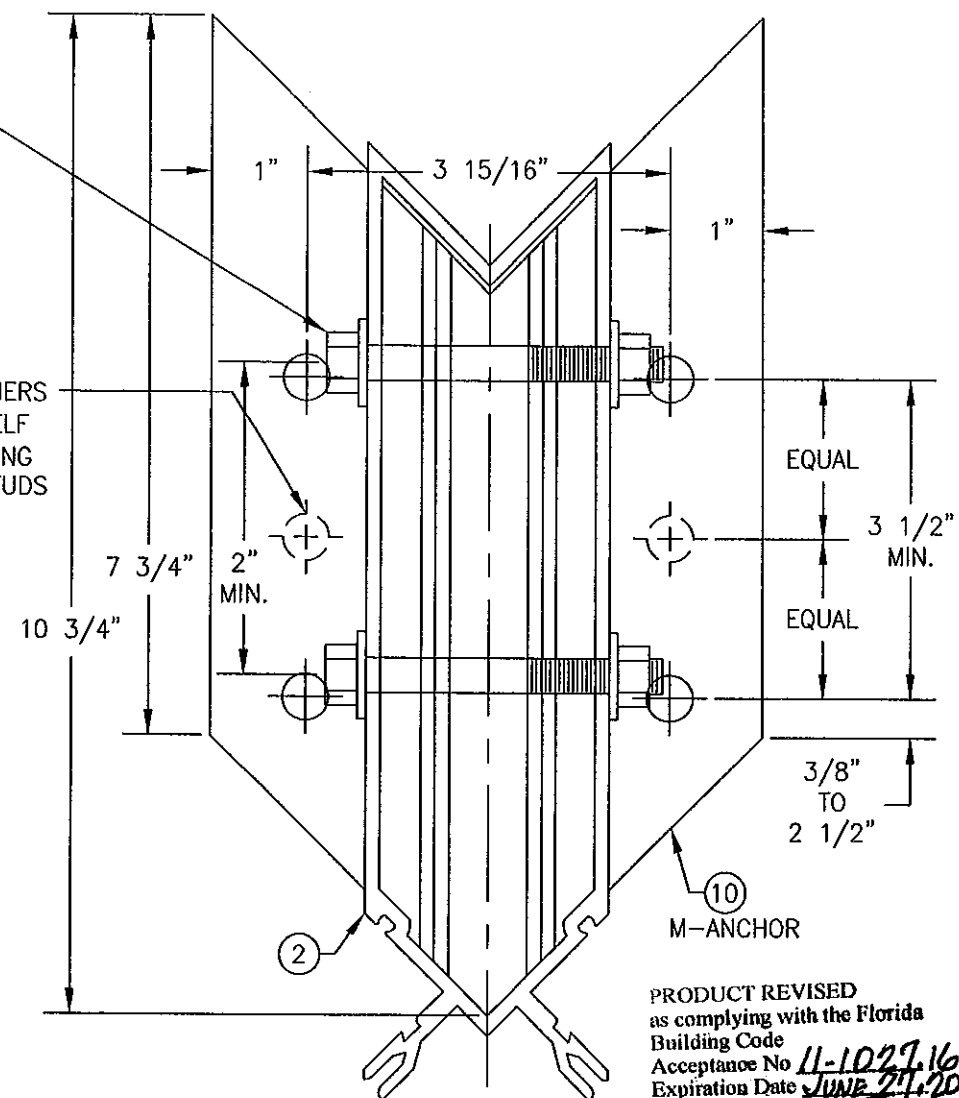
(TYP. AT SIDE JAMB MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBER NOT SHOWN FOR CLARITY.



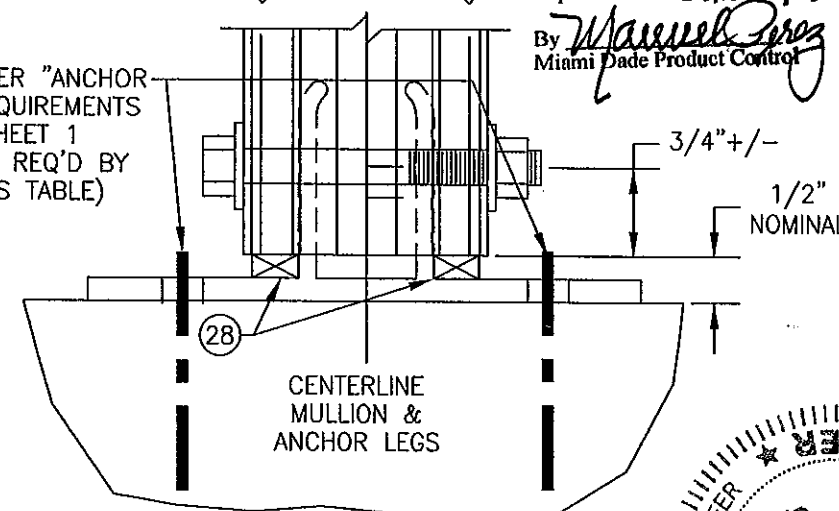
"M-ANCHOR" DETAIL

(TYP. AT INTERMEDIATE MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.

MIDDLE FASTENERS REQ'D WITH SELF DRILLING/TAPPING SCREWS TO STUDS & STEEL APPLICATIONS ONLY



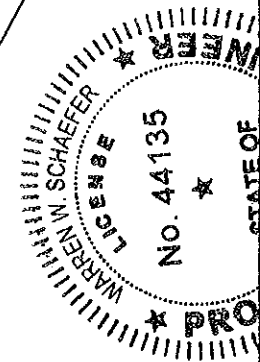
FASTENERS PER "ANCHOR FASTENER REQUIREMENTS TABLE" ON SHEET 1 (QUANTITY AS REQ'D BY REQUIREMENTS TABLE)



"M-ANCHOR" DETAIL

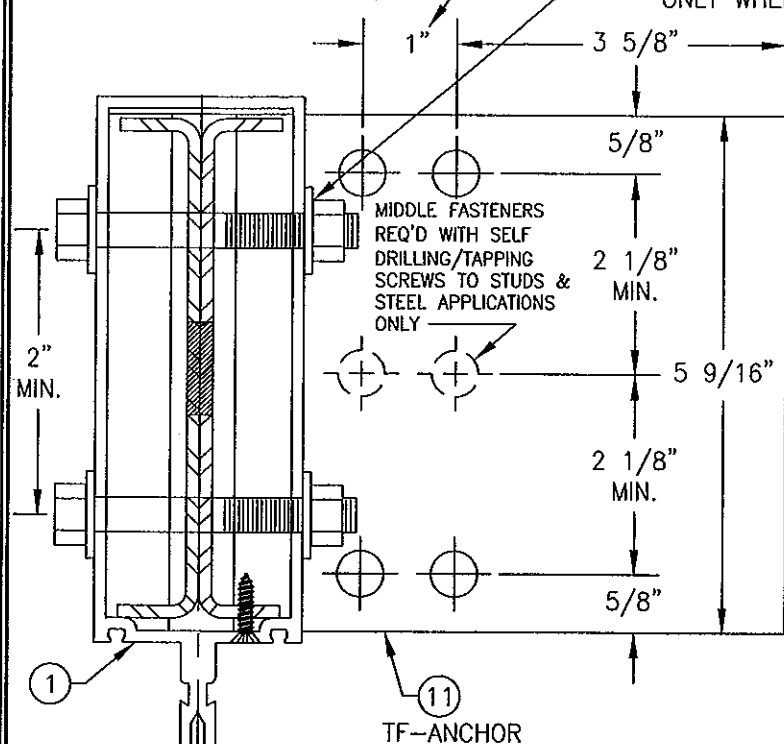
(TYP. AT CORNER MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBERS NOT SHOWN FOR CLARITY.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 11-102716
Expiration Date JUNE 27, 2017
By *Manuel Perez*
Miami Dade Product Control

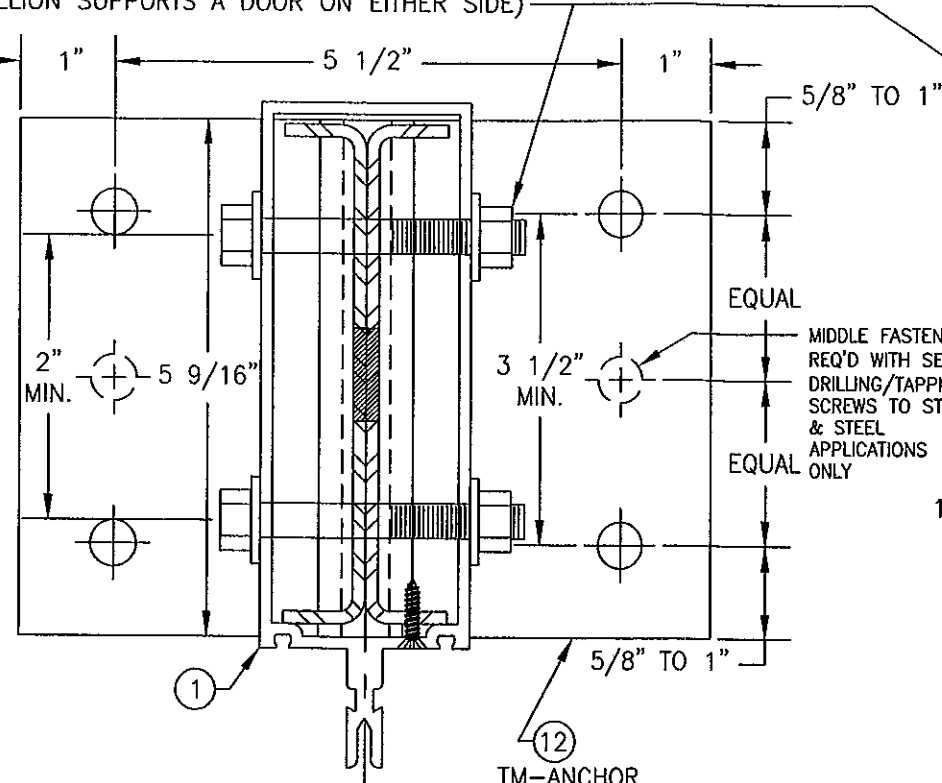


DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 01/15/02
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1091	REV. C
SHEET NO. 6	OF 9

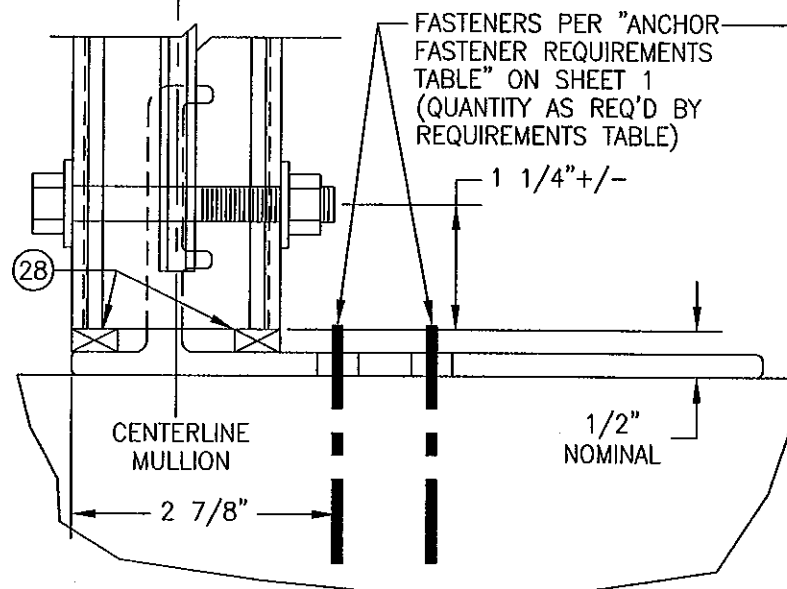
-TWO(2) 3/8" STL. THROUGH BOLTS THROUGH INTERSECTING MEMBER SHEAR BLOCKS, MULLION & TM ANCHOR (REQUIRED ONLY WHEN MULLION SUPPORTS A DOOR ON EITHER SIDE) —



TF-ANCHOR



TM-ANCHOR

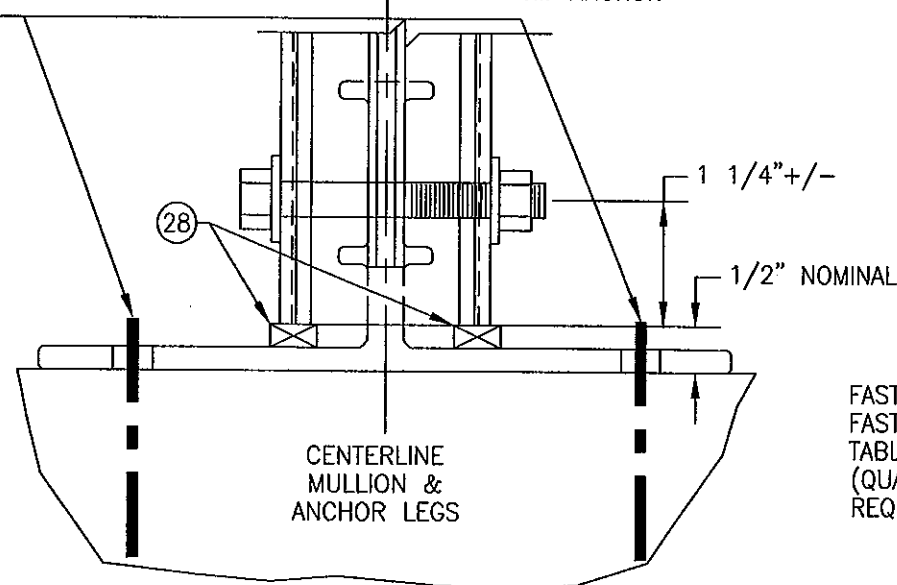


FASTENERS PER "ANCHOR
FASTENER REQUIREMENTS
TABLE" ON SHEET 1
(QUANTITY AS REQ'D BY
REQUIREMENTS TABLE)

1/2"
NOMINAL

"TF-ANCHOR" DETAIL

(TYP. AT SIDE JAMB MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBER
NOT SHOWN FOR CLARITY.

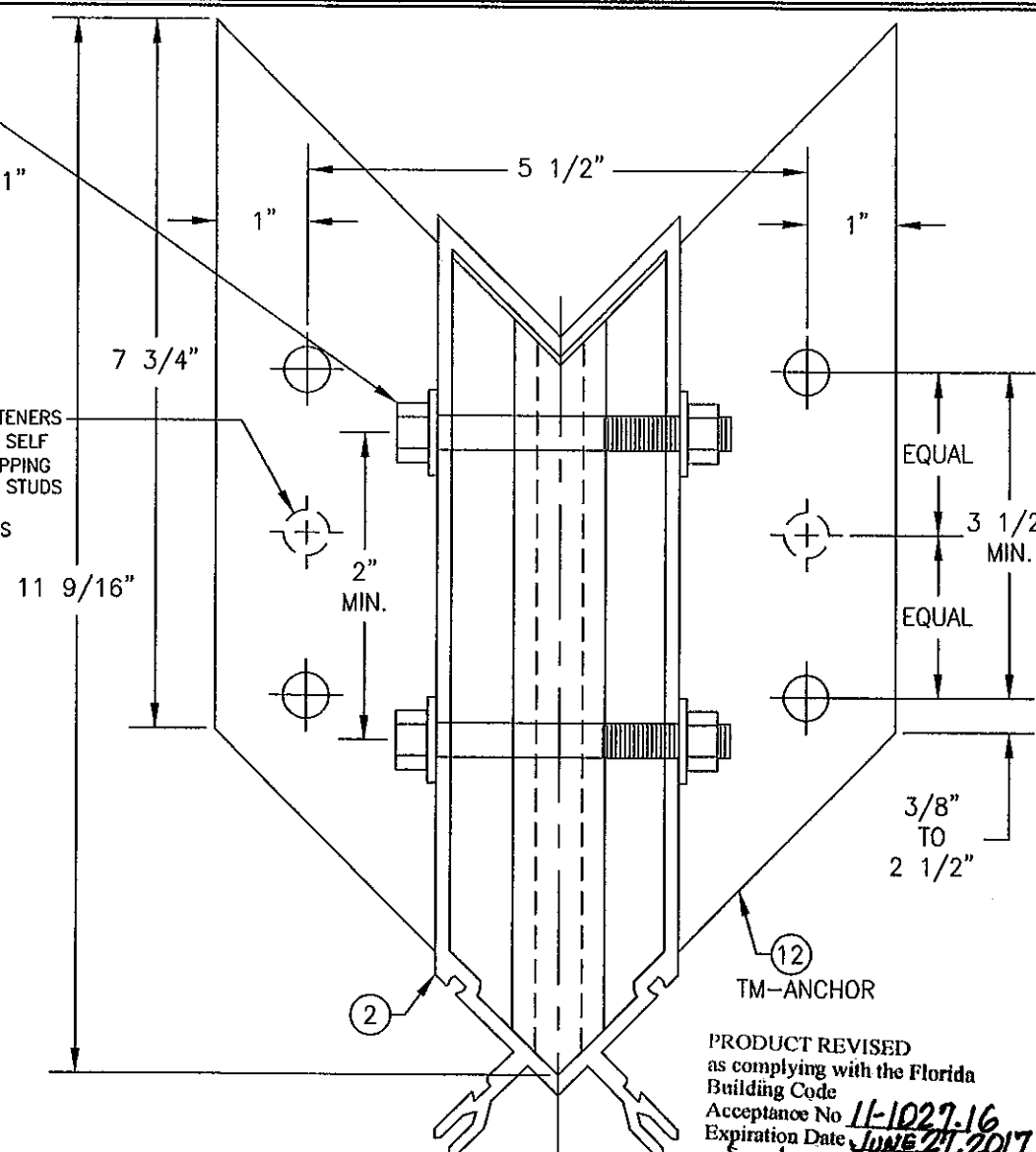


- 1/2" NOMINAL

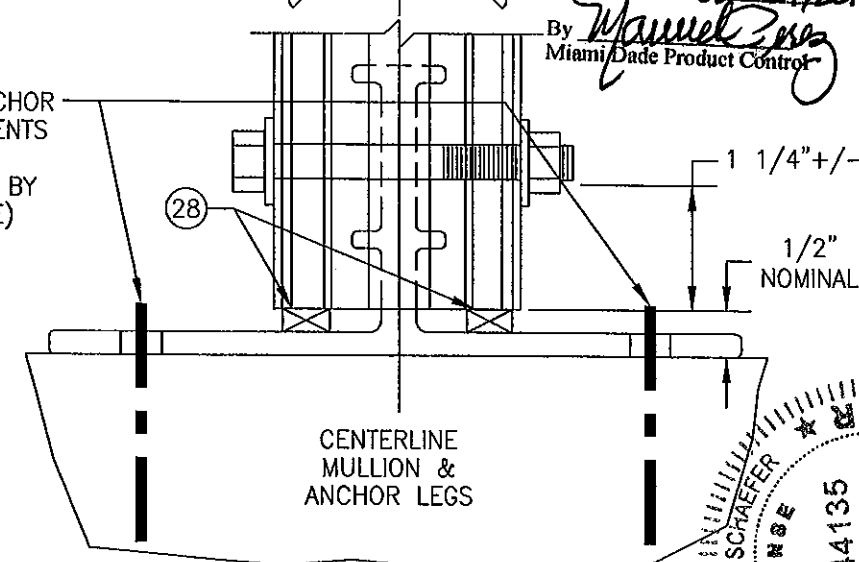
CENTERLINE
MULLION &
ANCHOR LEGS

"TM-ANCHOR" DETAIL

(TYP. AT INTERMEDIATE MULLIONS)
NOTE: GLAZING & HORIZONTAL MEMBERS
NOT SHOWN FOR CLARITY.



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 11-1027-16
Expiration Date JUNE 27, 2017
By Mamuel Pina
Miami Dade Product Control

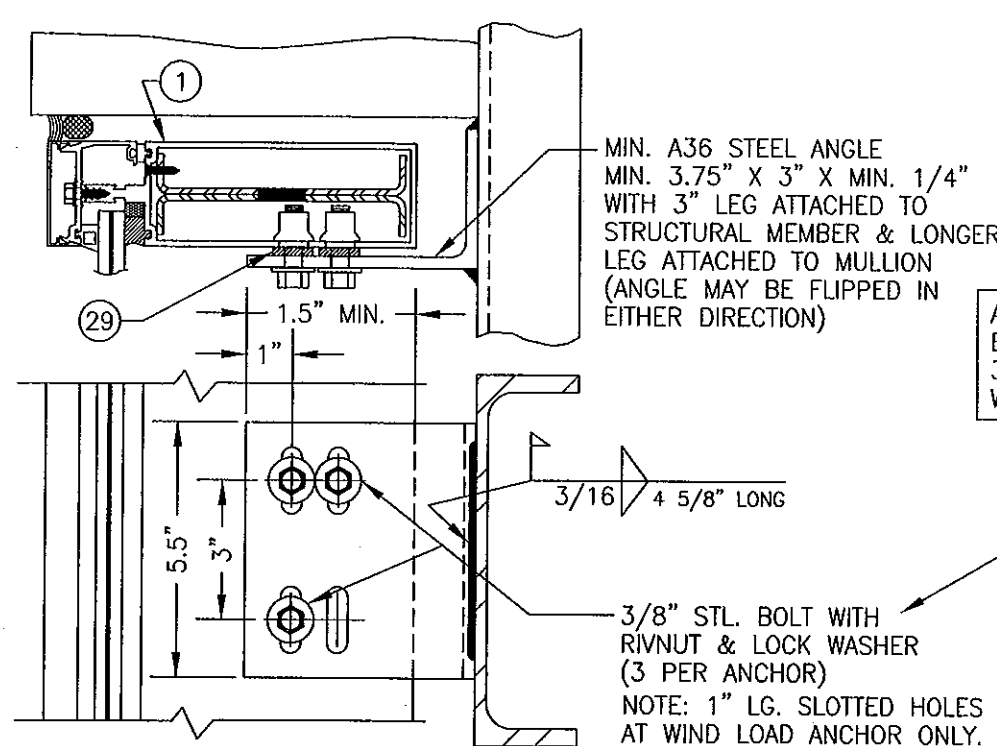


CENTERLINE
MULLION &
ANCHOR LEGS

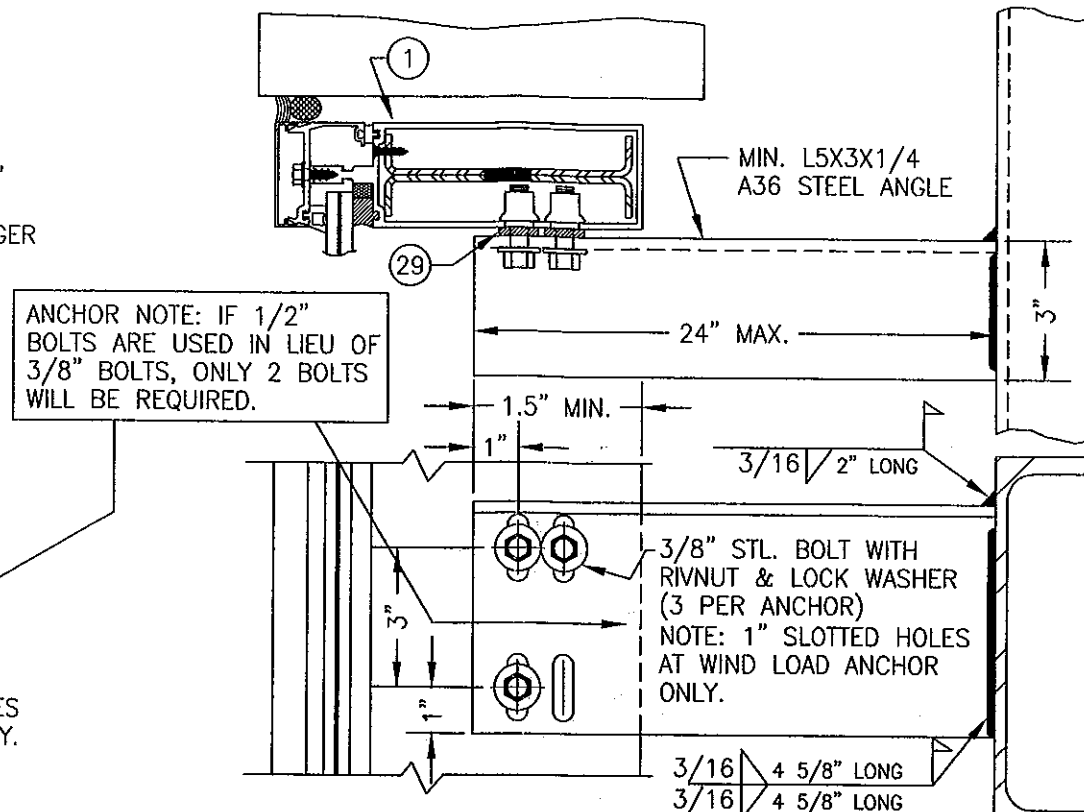
"TM-ANCHOR" DETAIL

NOTE: GLAZING & HORIZONTAL MEMBERS
NOT SHOWN FOR CLARITY.
(TYP. AT CORNER MULLIONS)

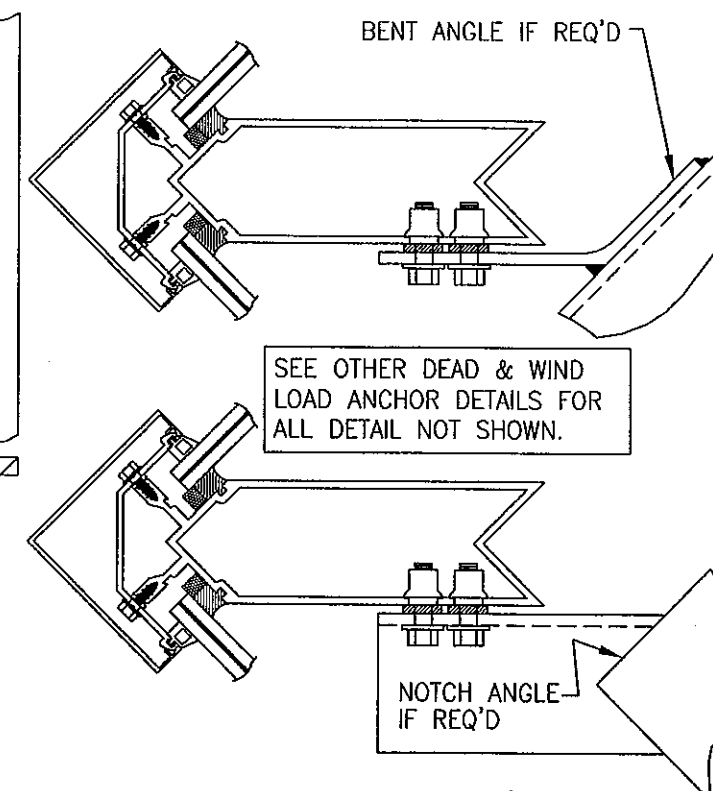
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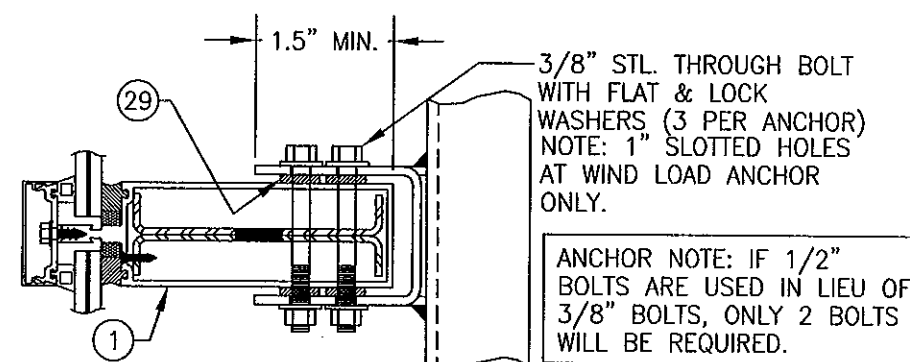
DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT JAMB MULLIONS)
(WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)



EXTENDED DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT JAMB MULLIONS) (WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)

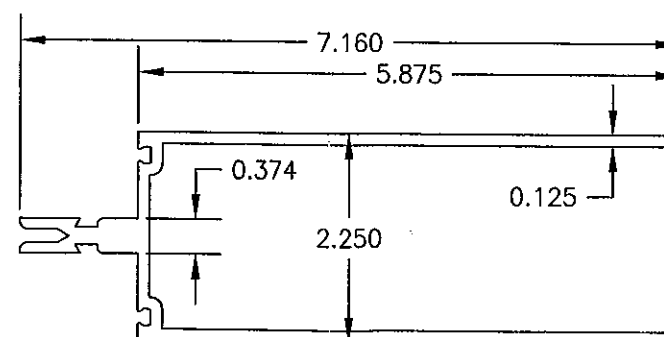


DEAD LOAD & WIND LOAD ANCHOR DETAIL
(TYP. AT CORNER MULLS)

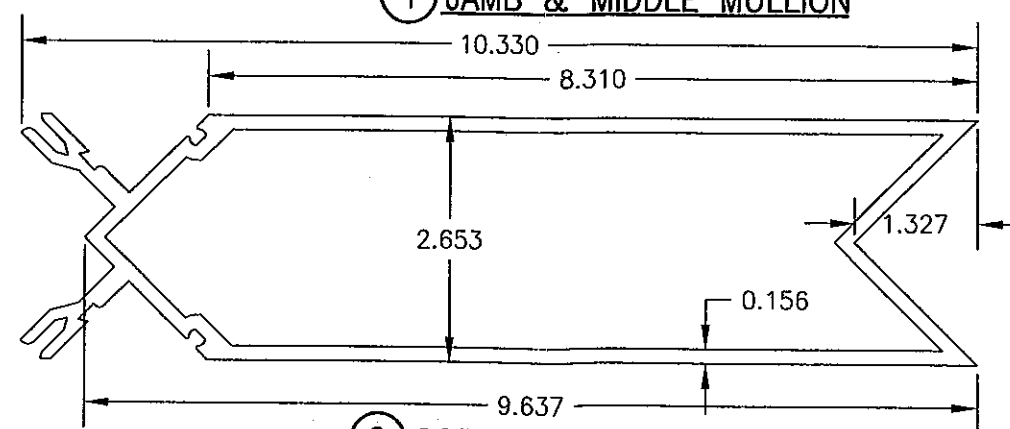


DEAD & WIND LOAD ANCHOR
(TYP. AT INTERMEDIATE MULLIONS)
(WIND LOAD ANCHOR HAS 1" LONG SLOTS FOR VERTICAL MOVEMENT)

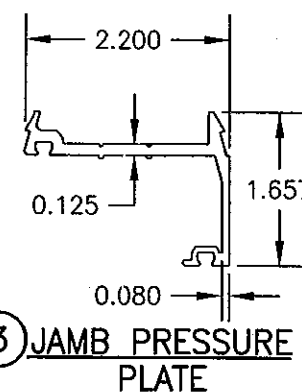
NOTE: DEAD LOAD & WIND LOAD ANCHOR DETAILS ARE SAME AT CORNER MULLION.



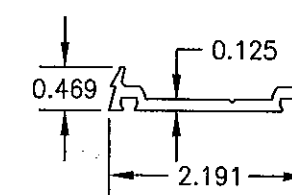
1 JAMB & MIDDLE MULLION



2 CORNER MULLION

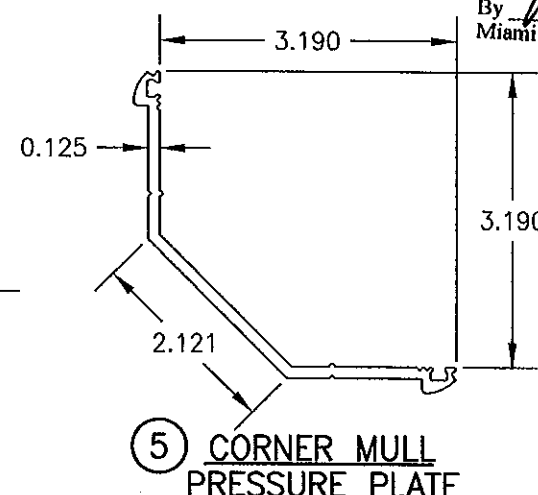


3 JAMB PRESSURE PLATE

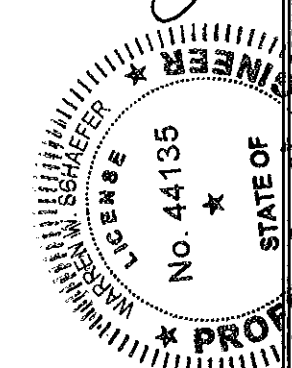


4 MID MULLION PRESSURE PLATE

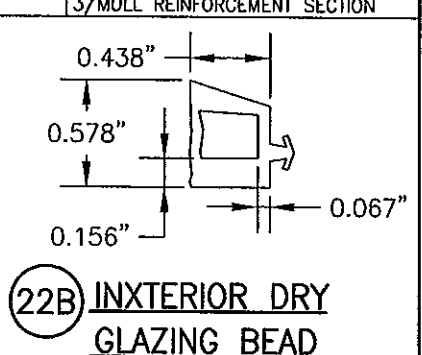
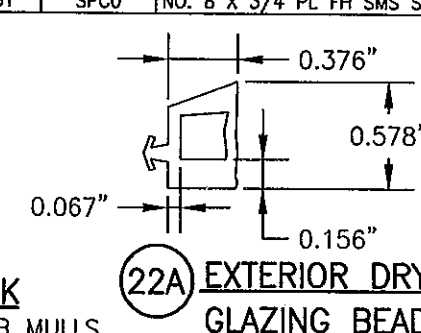
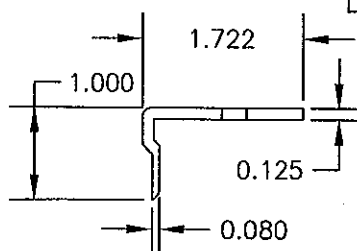
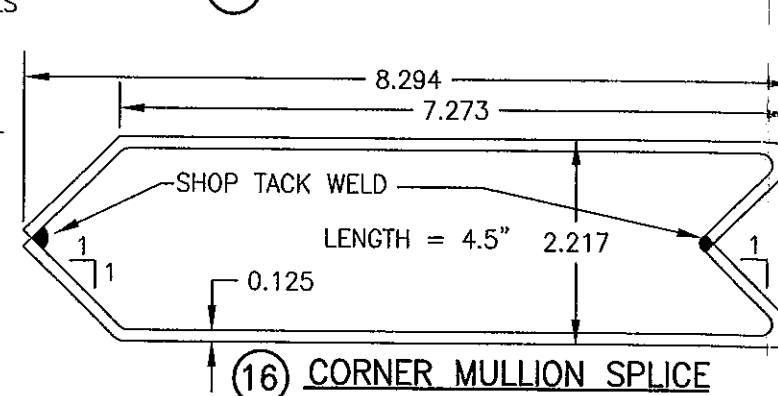
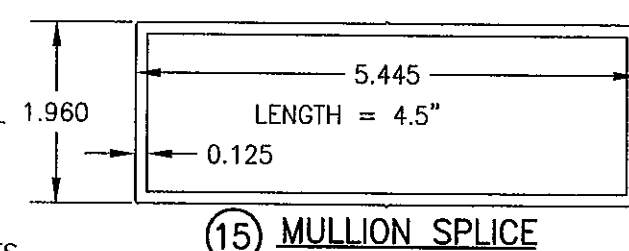
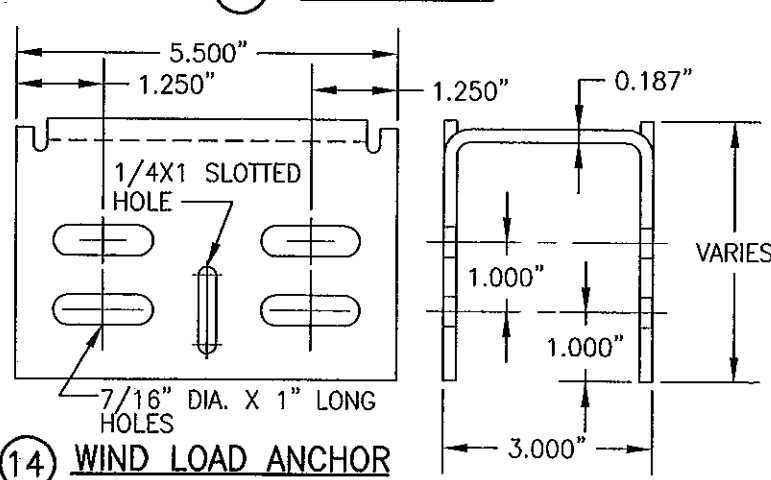
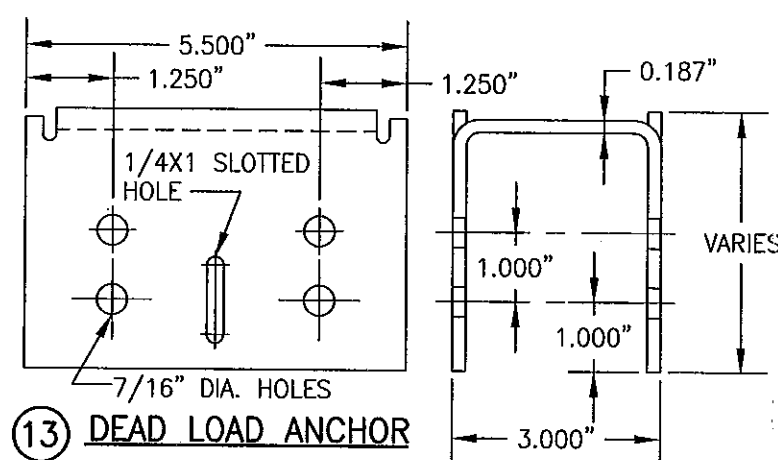
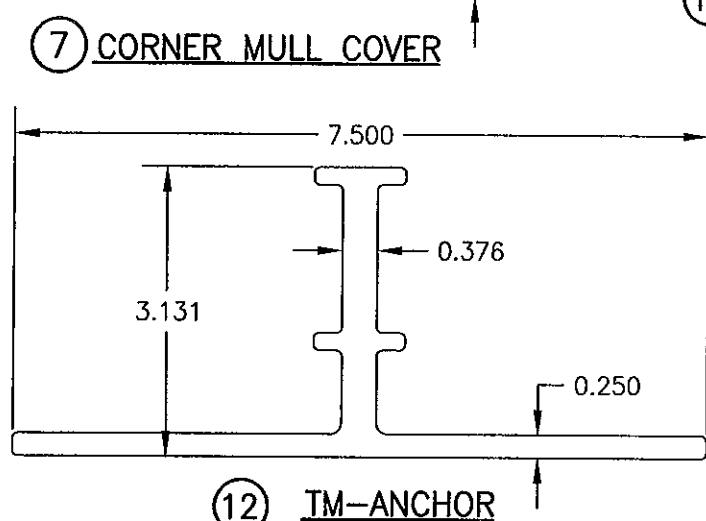
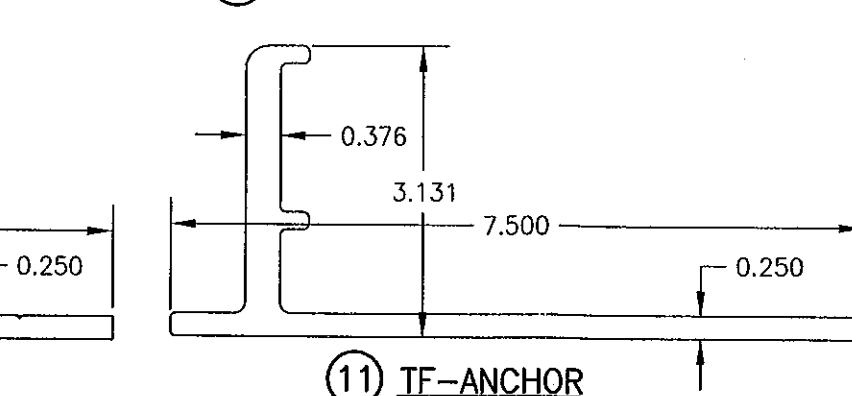
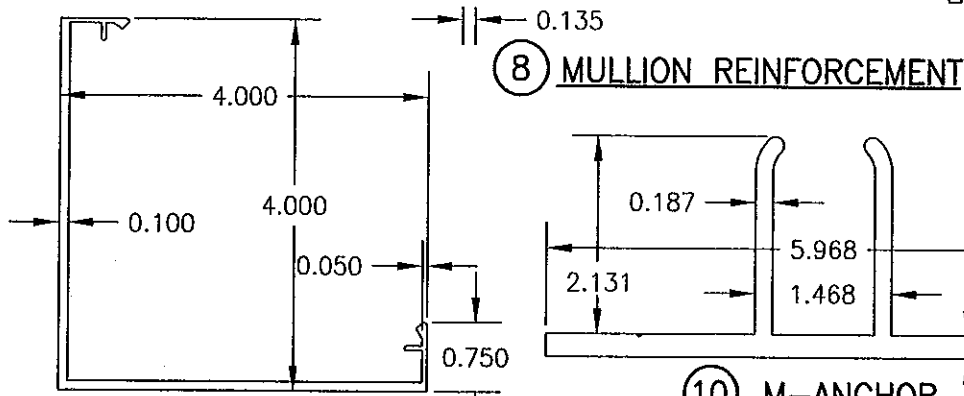
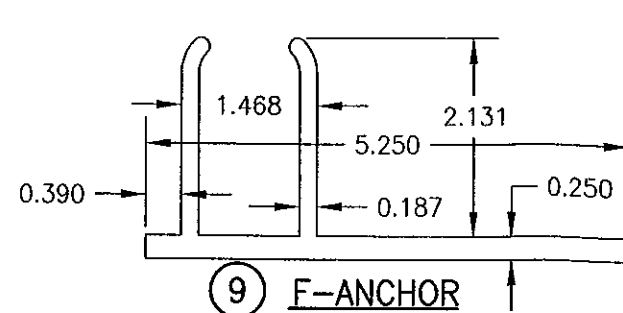
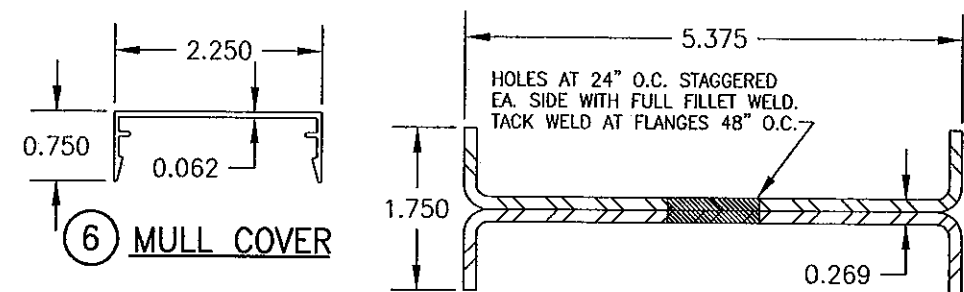
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027 16
Expiration Date June 24, 2017
By *Manuel*
Miami Trade Product Control



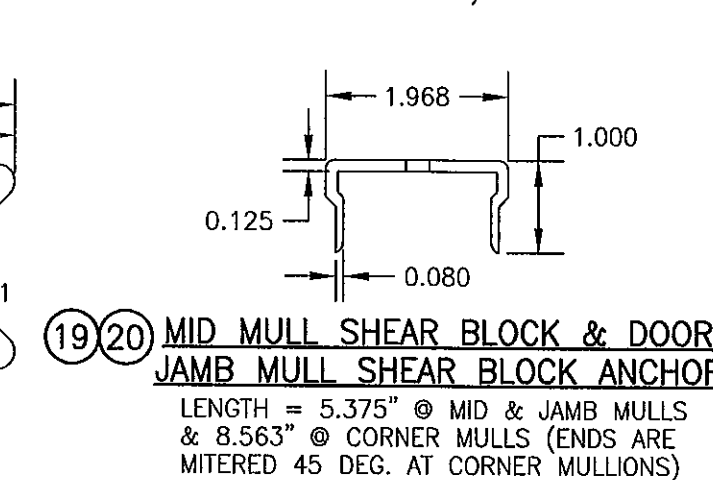
5 CORNER MULL PRESSURE PLATE



DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLT: 1=2	DATE: 01/15/02
NO.	REVISION DESCRIPTION
DATE	BY
DESCRIPTION	NO.
DRAWING TITLE 8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM	
MANUFACTURER EFCO CORPORATION 1000 COUNTY ROAD, P.O. BOX 609 MONETT, MO 65708-0609 800-221-4169	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING NO. 1091	
REV. C	
SHEET NO. 8 OF 9	

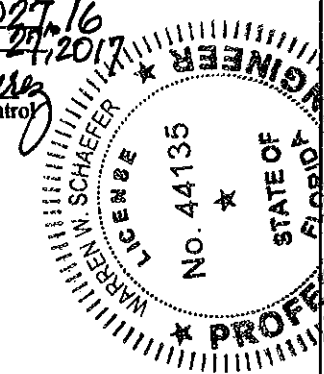


LENGTH = 5.375" @ MID & JAMB MULLS
& 8.563" @ CORNER MULLS (ENDS ARE
MITERED 45 DEG. AT CORNER MULLIONS)



ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	6095	JAMB & MIDDLE MULLION	EFCO; 6063-T6 ALUMINUM
2	6217	CORNER MULLION	EFCO; 6063-T6 ALUMINUM
3	5977	JAMB PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
4	5959	MIDDLE MULLION PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
5	5904	CORNER MULLION PRESSURE PLATE	EFCO; 6063-T6 ALUMINUM
6	5882	MULLION COVER	EFCO; 6063-T6 ALUMINUM
7	5905	CORNER MULLION COVER	EFCO; 6063-T6 ALUMINUM
8	SR6095A	DOUBLE CHANNEL MULL REINF.	EFCO; A36 MIN. STEEL
9	5878	F-ANCHOR	EFCO; 6063-T6 ALUMINUM
10	4026	M-ANCHOR	EFCO; 6063-T6 ALUMINUM
11	3709	TF ANCHOR	EFCO; 6063-T6 ALUMINUM
12	3708	TM ANCHOR	EFCO; 6063-T6 ALUMINUM
13	-	DEAD LOAD ANCHOR	EFCO; A36 MIN. STEEL
14	-	WIND LOAD ANCHOR	EFCO; A36 MIN. STEEL
15	5099	MULLION SPLICE	EFCO; 6063-T6 ALUMINUM
16	KY71	CORNER MULLION SPLICE	EFCO; A36 MIN. STEEL
17	KY51/KY52 6333	HEAD/SILL SHEAR BLOCK	EFCO; 6063-T6 ALUMINUM
18	KZ64/KZ65 6333	HEAD/SILL SHEAR BLOCK (CORNER MULL)	EFCO; 6063-T6 ALUMINUM
19	KW04/5879	MID MULL & JAMB MULL SHEAR BLOCK	EFCO; 6063-T6 ALUMINUM
20	KZ66/5879	MID MULL SHEAR BLOCK (CORNER MULL)	EFCO; 6063-T6 ALUMINUM
SEALS, SEALANTS & SHIMS			
21	WEP7	3/16" SILICONE SPACER	EPG
22A	W163	EXTERIOR DRY GLAZING BEAD (DURMOETER = 60 +/-4)	EPG (PRESET PEROXIDE CURE EPDM)
22B	W162	INTERIOR DRY GLAZING BEAD (DURMOETER = 60 +/-4)	EPG (PRESET PEROXIDE CURE EPDM)
23	WM88	5/16" X 7/16" V2100	NORTON
24	HN16	0.187" X 0.812" X 4" GLAZING BLOCK	EPG
25	WNC8	1/8" PRESET 70 DUROMETER EPDM	EPG
26	WM87	5/16" X 1/4" V2100	NORTON
27	HN91	0.187" X 1.0" X 4" GLAZING BLOCK	EPG
28	HS01	POLYSTYRENE SHIM	FALMOUTH PLASTIC
29	HS01	POLYSTYRENE SHIM	FALMOUTH PLASTIC
MISCELLANEOUS FASTENERS			
30	STC0	13-16 X 5/8" HWH S.S. SMS SCREW	6" O.C.
31	SPC0	NO. 8 X 3/4 PL FH SMS SCREW	3/MULL REINFORCEMENT SECTION

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1027-16
Expiration Date June 27, 2017
By *Manuel Perez*
Miami Dade Product Control



DRAWING TITLE: 8" DEEP SERIES 5600 SMALL MISSILE IMPACT CURTAIN WALL SYSTEM

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)

MANUFACTURER: EFCO CORPORATION

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SEP 30 2011

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SHEET NO. 9 OF 9

REV. C